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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/809,926	03/26/2004	Osamu Kawachi	025720-00028	6762
4372	7590 02/01/2006		EXAMINER	
ARENT FOX PLLC			SUMMONS, BARBARA	
1050 CONNECTICUT AVENUE, N.W. SUITE 400			ART UNIT	PAPER NUMBER
WASHINGTON, DC 20036		2817		
	•		DATE MAILED: 02/01/2006	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/809,926	KAWACHI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Barbara Summons	2817				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timulated and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>04 Not</u> 2a)⊠ This action is FINAL . 2b)□ This 3)□ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	secution as to the merits is				
Disposition of Claims						
4) ⊠ Claim(s) 1-5 and 7-19 is/are pending in the approach 4a) Of the above claim(s) is/are withdraw 5) ⊠ Claim(s) 1-5 and 7-17 is/are allowed. 6) ⊠ Claim(s) 18 and 19 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the l drawing(s) be held in abeyance. Sec ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 9/28/05 & 11/4/05.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:					

Application/Control Number: 10/809,926

Art Unit: 2817

DETAILED ACTION

New Grounds of Claim Objections

Claims 18 and 19 are objected to because of the following informalities:
 In claim 18, on line 3, "and first film" should be changed to -- and a first film --.
 In claim 19, on line 8, "an a position" should be changed to -- and a position --.
 Appropriate correction is required.

Withdrawn Claim Rejections - 35 USC §§ 102 and 103

2. Applicants' amendments received 11/4/05 and 11/22/05, and arguments received 11/4/05 have overcome all previous rejections, and these prior rejections have been withdrawn.

New Grounds of Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 18 and 19 are rejected under 35 U.S.C. § 102(e) as being anticipated by Cohn et al. U.S. 6,853,067 (of record).

Regarding the claimed feature "surface activation process", as also stated in the prior Office action, it should be noted that the specification is not considered to have provided a special definition for this terminology, and so the Examiner will give it its

Art Unit: 2817

broadest possible interpretation. Additionally, regarding apparatus claim 18, "joined by a surface activation process" is given very little patentable weight since this is considered to be a product-by-process claim in which it is the finished product that determines patentability. That is, "the patentability of a product does not depend on its method of production" *In re Thorpe*, USPQ 964,966 (Fed. Cir. 1985) (citations omitted). [See also MPEP § 2113].

Cohn et al. disclose a MEMs (MicroElectroMechanical) device (Fig. 3a) that is also disclosed to include surface acoustic wave devices (see col. 10, lines 30-33), comprising: a substrate 300 that inherently must be piezoelectric for the surface acoustic wave device to function, and Cohn specifically discloses the piezoelectric material quartz (see col. 7, lines 23-26 and col. 10, lines 12-18), on a first surface of the piezoelectric substrate there are formed comb electrodes, first pads 314 connected thereto, and a first film 312 that surrounds the comb electrode; a base substrate 350 having a second surface on which second pads 314' joined to the first pads (Fig. 3c) and a second film 312' joined to the first film are provided; and an electronic element 318 provided on an area of the second surface facing the first surface, wherein the first and second films 312/312' are "configured to be joined by a surface activation process" being heat and pressure (see e.g. box 470 in Fig. 4) and to define a cavity in which the comb electrodes, the first and second pads 314/314', and the electronic element 318 are hermetically sealed (see e.g. col. 4, lines 34-37).

Regarding the method claim 19, as can be seen in Figs. 3a-c, the first pads and film correspond in position with the second pads and second film. Additionally, each of

Art Unit: 2817

the surfaces of the first film and the second film have a "surface activation process" applied thereto, wherein the "surface activation process" can be considered to be the heat and/or the pressure applied, or can also be considered to be the disclosed degassing process that "activates" the gold surfaces by reducing their hardness so that the bonding requires less pressure (see e.g. col. 11, lines 46-52).

Response to Arguments

5. Applicants' arguments with respect to claims 1 and 13 were persuasive, and the prior rejections have been withdrawn. Applicants put forth no peremptory arguments regarding new claims 18 and 19, and therefore, no further response by the Examiner is considered necessary at this time.

Allowable Subject Matter

6. Claims 1-5 and 7-17 are allowable over the prior art of record.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

Application/Control Number: 10/809,926

Art Unit: 2817

shortened statutory period will expire on the date the advisory action is mailed, and any

Page 5

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

8. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Barbara Summons whose telephone number is (571)

272-1771. The examiner can normally be reached on M-Th, M-Fr.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Bob Pascal can be reached on (571) 271-1769. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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Business Center (EBC) at 866-217-9197 (toll-free).

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January 30, 2006

Barbara SUMMONS

PRIMARY EXAMINER